

United States of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate

Number ST01894NY-D

This certificate, issued to Delta Engineering
13 DRBA Way
New Castle County Airport
New Castle, Delaware 19720

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations.

Original Product — Type Certificate Number: A2NM
Make: Boeing
Model: 757-200/300 Series

Description of Type Design Change:

Configuration 1: Replacement of dual transponders with ACSS 7517800-10005 ATDL transponders with ELS/EHS in accordance with Delta Engineering Master Data List 0145-05313-2075 (Configuration 1) Revision F dated Apr. 8, 2009 or later FAA approved revisions to Delta Engineering Master Data List previously listed. Instructions for Continued Airworthiness as listed on the Master Data List are required with this installation.

Configuration 2: Replacement of dual transponders with ACSS 7517800-10005/-11006 ATDL transponders with ELS/EHS and G7490-26 Gables Control Panel in accordance with Delta Engineering Master Data List 0145-05313-2075 (Configuration 2) Revision F dated Apr. 8, 2009 or later FAA approved revisions to Delta Engineering Master Data List previously listed. Instructions for Continued Airworthiness as listed on the Master Data List are required with this installation.

Configuration 3: Replacement of TCAS processor with ACSS or Honeywell 7517900-10004 TCAS 2000 and antenna in accordance with Delta Engineering Master Data List 0145-05467-2075 Revision A dated Dec. 22, 2004 or later FAA approved revisions to Delta Engineering Master Data List previously listed. Instructions for Continued Airworthiness as listed on the Master Data List are required with this installation.

Configuration 4: Activation of ADS-B on ACSS 7517800-10005/-11006 transponders in accordance with Delta Engineering Master Data List 0145-06566-2075 Revision A dated May 18, 2009 or later FAA approved revisions to Delta Engineering Master Data List previously listed. The Airplane Flight Manual Supplement as listed on the Master Data List is required with this installation.

Limitations and Conditions:

1. If the holder agrees to permit another person to use the certificate to alter the product, the holder shall give the other person written evidence of that permission.
2. Compatibility of this design change with previously approved modifications must be determined by the installer.
3. This modification may not be installed after August 30, 2010 unless (1) previously approved electrical wiring interconnection system (EWIS) instructions for continued airworthiness (ICA) have been evaluated and determined to be adequate for this installation by the FAA, or (2) revised EWIS ICA have been approved by the FAA Oversight Office. (Refer to §26.11) (See Continuation Sheet 2)

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: September 26, 2007

Date reissued:

Date of issuance: November 11, 2008

Date amended: May 22, 2009



By direction of the Administrator
Jonathan E. Moritz
Jonathan E. Moritz (Signature)
DAS Administrator
Delta Engineering, DAS-800728-NE
(Title)

Any Alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

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Supplemental Type Certificate

(Continuation Sheet)

Number ST01894NY-D

Amendment Date: May 22, 2009

Limitations and Conditions (continued):

4. Note that the ADS-B activation (Configuration 4) does affect any existing aircraft maintenance manuals/procedures.
5. The ADS-B activation (Configuration 4) must interface with the following listed required existing components/systems, which must be installed in a manner acceptable to the FAA Administrator, The below listed required existing components/systems are not approved by this STC.

Required existing components/systems:

Component/System	Manufacture	Model	Additional Requirements
ATDL (Air Transport Data Link) Transponders	ACSS	XS-950	Part Number 7517800-10005/-11006
MMR (Multi-mode Receiver)	Rockwell Collins	GLU-920	Part Number 822-1152-002 or 822-1152-001
ADC (Air Data Computer)	Honeywell	DADC 7X7	Part Number 4040800-911, 4040800-912 or HG2050AC07
FMS (Flight Management System)	Honeywell	AFMC Pegasus	Part Number 4052506-955

Certification Basis:

Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for the Boeing 757-200/-300 Series with this STC is as follows:

- a. The type certification basis for Boeing 757-200/-300 Series airplanes is shown on TCDS A2NM for parts **not changed or not affected** by the change.
- b. The certification basis for parts **changed or affected** by the change since the reference date of application, Aug. 27, 2008 is based upon part 25 as amended by Amendment 25-122. Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for this modification was determined to be as shown on the TCDS A2NM except the regulations listed below:

Section	Title	At Amendment
§25.981	Fuel tank temperature	25-102
§25.1353	Electrical equipment and installations	25-113
§25.1431	Electronic equipment	25-113
§25.1583	Operating limitations	25-105
§25.1585	Operating procedures	25-105
§26.11	EWIS	26-0
§26.47	Aging Aircraft Safety Rule	26-1

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